

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13979	(707/100-102,104.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 16:19
L2	2535	(707/200).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 16:19
L3	15967	1 or 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:20
L4	88	"unique token".clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:21
L5	142424	segment.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:21
L6	1111	(index near2 entry).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:22
L7	0	4 and 5 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:22
L8	1	4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:22

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L9	1	4 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:23
L10	102	5 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:22
L11	18	10 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:35
L12	1	11 and reorganization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:39
L13	1531	(707/205,206).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/19 16:39
L14	17043	3 or 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:40
L15	19	10 and 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/19 16:40



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1 [Hierarchical Data-Base Management: A Survey](#)



D. C. Tsichritzis, F. H. Lochovsky

 March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [B-trees: bearing fruits of all kinds](#)



Beng Chin Ooi, Kian-Lee Tan

 January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: pdf(872.95 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Index structures are often used to support search operations in large databases. Many advanced database application domains such as spatial databases, multimedia databases, temporal databases, and object-oriented databases, call for index structures that are specially designed and tailored for the domains. Interestingly, in each of these domains, we find methods that are based on one distinct structure --- the B-tree. Invented some thirty years ago, the B-tree has been challenged repeatedly, but ...

Keywords: b-tree, high-dimensional databases, main memory databases, multimedia databases, spatial databases

3 [Indexing the past, present, and anticipated future positions of moving objects](#)



Mindaugas Pelanis, Simonas Šaltenis, Christian S. Jensen

 March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(1.24 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the proliferation of wireless communications and geo-positioning, e-services are envisioned that exploit the positions of a set of continuously moving users to provide context-aware functionality to each individual user. Because advances in disk capacities continue to outperform Moore's Law, it becomes increasingly feasible to store online all the position information obtained from the moving e-service users. With the much slower advances in I/O speeds and many concurrent users, indexing te ...

Keywords: Continuous variable, indexing, moving object, polyline, querying, trajectory,

update

4 DB-2 (databases): data streams: Interval query indexing for efficient stream processing



Kun-Lung Wu, Shyh-Kwei Chen, Philip S. Yu

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(263.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A large number of continual range queries can be issued against a data stream. Usually, a main memory-based query index with a small storage cost and a fast search time is needed, especially if the stream is rapid. In this paper, we present a CEI-based query index that meets both criteria for efficient processing of continual interval queries in a streaming environment. This new query index is centered around a set of predefined virtual $\langle i \rangle$ containment-encoded intervals $\langle i \rangle$, or CEIs. T ...

Keywords: continual queries, data streams, interval indexing, query indexing, query monitoring

5 An asymptotically optimal multiversion B-tree



Bruno Becker, Stephan Gschwind, Thomas Ohler, Bernhard Seeger, Peter Widmayer

December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(151.97 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In a variety of applications, we need to keep track of the development of a data set over time. For maintaining and querying these multiversion data efficiently, external storage structures are an absolute necessity. We propose a multiversion B-tree that supports insertions and deletions of data items at the current version and range queries and exact match queries for any version, current or past. Our multiversion B-tree is asymptotically optimal in the sense that the time and space bounds are ...

Keywords: Access methods, Information systems, Physical design, Versioned data

6 The subtree max gap problem with application to parallel string covering



Amir M. Ben-Amram, Omer Berkman, Costas S. Iliopoulos, Kunsoo Park

January 1994 **Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Tree pattern matching and subset matching in randomized $O(n \log 3m)$ time



Richard Cole, Ramesh Hariharan

May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 A morphologically sensitive clustering algorithm for identifying Arabic roots



Anne N. de Roeck, Waleed Al-Fares


October 2000 **Proceedings of the 38th Annual Meeting on Association for**

Computational Linguistics ACL '00**Publisher:** Association for Computational LinguisticsFull text available:  [pdf\(67.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a clustering algorithm for Arabic words sharing the same root. Root based clusters can substitute dictionaries in indexing for IR. Modifying Adamson and Boreham (1974), our Two-stage algorithm applies light stemming before calculating word pair similarity coefficients using techniques sensitive to Arabic morphology. Tests show a successful treatment of infixes and accurate clustering to up to 94.06% for unedited Arabic text samples, without the use of dictionaries.

9 Bounded-skew clock and Steiner routing

Jason Cong, Andrew B. Kahng, Cheng-Kok Koh, C.-W. Albert Tsao


July 1998 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 3 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(686.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the minimum-cost bounded-skew routing tree problem under the pathlength (linear) and Elmore delay models. This problem captures several engineering tradeoffs in the design of routing topologies with controlled skew. Our bounded-skew routing algorithm, called the BST/DME algorithm, extends the DME algorithm for exact zero-skew trees via the concept of a merging region. For a prescribed topology, BST/DME constructs a bounded-skew tree (BST) in two p ...

Keywords: (inter)connection, Elmore delay, Steiner tree, VLSI, boundary merging and embedding, bounded-skew, clock tree, interior merging and embedding, low power, merging region, merging segment, pathlength delay, synchronization, zero-skew

10 I/O-efficient dynamic point location in monotone planar subdivisions

Pankaj K. Agarwal, Lars Arge, Gerth Stølting Brodal, Jeffrey S. Vitter

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**11 1 - Regular Articles: Average-optimal single and multiple approximate string matching**

Kimmo Fredriksson, Gonzalo Navarro

December 2004 **Journal of Experimental Algorithmics (JEA)**, Volume 9 Issue es**Publisher:** ACM PressFull text available:  [pdf\(1.77 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new algorithm for multiple approximate string matching. It is based on reading backwards enough l-grams from text windows so as to prove that no occurrence can contain the part of the window read, and then shifting the window. We show analytically that our algorithm is optimal on average. Hence our first contribution is to fill an important gap in the area, since no average-optimal algorithm existed for multiple approximate string matching. We consider several variants and practical i ...

Keywords: Algorithms, approximate string matching, biological sequences, multiple string matching, optimality

12 Exploiting k-constraints to reduce memory overhead in continuous queries over data streams

Shivnath Babu, Utkarsh Srivastava, Jennifer Widom


September 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 3

Publisher: ACM PressFull text available:  [pdf\(423.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Continuous queries often require significant run-time state over arbitrary data streams. However, streams may exhibit certain data or arrival patterns, or *constraints*, that can be detected and exploited to reduce state considerably without compromising correctness. Rather than requiring constraints to be satisfied precisely, which can be unrealistic in a data streams environment, we introduce *k-constraints*, where *k* is an *adherence parameter* specifying how closely a st ...

Keywords: Continuous queries, constraints, data streams**13** Storing and querying XML data using denormalized relational databases

Andrey Balmin, Yannis Papakonstantinou

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available:  [pdf\(397.97 KB\)](#) Additional Information: [full citation](#), [abstract](#)

XML database systems emerge as a result of the acceptance of the XML data model. Recent works have followed the promising approach of building XML database management systems on underlying RDBMS's. Achieving query processing performance reduces to two questions: (i) How should the XML data be decomposed into data that are stored in the RDBMS? (ii) How should the XML query be translated into an efficient plan that sends one or more SQL queries to the underlying RDBMS and combines the data ...

14 Discovering typical structures of documents: a road map approach

Ke Wang, Huiqing Liu

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval****Publisher:** ACM PressFull text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15** Bounded-skew clock and Steiner routing under Elmore delay

Jason Cong, Andrew B. Kahng, Cheng-Kok Koh, C.-W. Albert Tsao

December 1995 **Proceedings of the 1995 IEEE/ACM international conference on Computer-aided design****Publisher:** IEEE Computer SocietyFull text available:  [pdf\(219.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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We study the minimum-cost bounded-skew routing tree problem under the Elmore delay model. We present two approaches to construct bounded-skew routing trees: (i) the Boundary Merging and Embedding (BME) method which utilizes merging points that are restricted to the boundaries of merging regions, and (ii) the Interior Merging and Embedding (IME) algorithm which employs a sampling strategy and dynamic programming to consider merging points that are interior to, rather than on the boundary of, the ...

Keywords: bounded-skew, zero-skew, clock routing, Elmore delay, pathlength delay, zero-skew, VLSI, routing trees, global routing**16** Session 3A: Binary space partitions for 3D subdivisions

John Hersberger, Subhash Suri

January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on**

Discrete algorithms**Publisher:** Society for Industrial and Applied MathematicsFull text available:  pdf(943.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the following question: Given a subdivision of space into n convex polyhedral cells, what is the worst-case complexity of a binary space partition (BSP) for the subdivision? We show that if the subdivision is rectangular and axis-aligned, then the worstcase complexity of an axis-aligned BSP is $\Omega(n^{4/3})$ and $O(n^\alpha \log^2 n)$, where $\alpha = 1 + \log_2(4/3) = 1.4150375 \dots$. By contrast, it is known tha ...

17 Summarization: Generic summarization and keyphrase extraction using mutual reinforcement principle and sentence clustering



Hongyuan Zha

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval****Publisher:** ACM PressFull text available:  pdf(191.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A novel method for *simultaneous* keyphrase extraction and generic text summarization is proposed by modeling text documents as weighted undirected and weighted bipartite graphs. Spectral graph clustering algorithms are used for partitioning sentences of the documents into topical groups with sentence link priors being exploited to enhance clustering quality. Within each topical group, saliency scores for keyphrases and sentences are generated based on a mutual reinforcement principle. The ...

Keywords: bipartite graph, graph partitioning, keyphrase extraction, mutual reinforcement principle, singular value decomposition, text summarization

18 Session 2A: New trade-offs in cost-sharing mechanisms



Tim Roughgarden, Mukund Sundararajan

May 2006 **Proceedings of the thirty-eighth annual ACM symposium on Theory of computing STOC '06****Publisher:** ACM PressFull text available:  pdf(247.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


A cost-sharing mechanism is a protocol that collects bids from a set of players, selects a subset of the players to receive a service (incurring a subset-dependent cost), and determines a price to charge each of these players. Three standard requirements for cost-sharing mechanisms are incentive compatibility, which states that players are motivated to bid their true valuation for the service; budget-balance, meaning that the prices charged should recover the cost incurred; and efficiency, which ...

Keywords: Braess's Paradox, random graphs, selfish routing

19 Applications of the fusion tree method to computational geometry and searching



Dan E. Willard

September 1992 **Proceedings of the third annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  pdf(905.32 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Silhouette clipping



Pedro V. Sander, Xianfeng Gu, Steven J. Gortler, Hugues Hoppe, John Snyder

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  pdf(6.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Approximating detailed with coarse, texture-mapped meshes results in polygonal silhouettes. To eliminate this artifact, we introduce silhouette clipping, a framework for efficiently clipping the rendering of coarse geometry to the exact silhouette of the original model. The coarse mesh is obtained using progressive hulls, a novel representation with the nesting property required for proper clipping. We describe an improved technique for constructing texture and normal maps over this coarse ...

Keywords: level of detail algorithms, rendering algorithms, texture mapping, triangle decimation

Results 1 - 20 of 20

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